

CLAIMS

What is claimed is:

1 1. A computerized, Internet protocol (IP) based voice response system for servicing a
2 call received over a public switched telephone network (PSTN) comprising:
3 a PSTN-to-IP gateway for connecting to the public switched telephone network;
4 an IP network medium connected to the gateway; and
5 a network server in communication with the network medium for automated
6 interaction with a user participating in the call.

1 2. The voice response system of claim 1, wherein the network server comprises a host
2 computer for executing a voice application program, a grammar database corresponding to a
3 set of recognizable utterances, and a voice recognition engine for comparing a speech input
4 from the user against the set of recognizable utterances.

1 3. The voice response system of claim 2, wherein the voice application program is a
2 VoiceXML program.

1 4. The voice response system of claim 2, further comprising a firewall in communication
2 with the network medium for connecting the network server to an external IP network through
3 the firewall, wherein the voice application program is remotely hosted on the external IP
4 network.

1 5. The voice response system of claim 2, wherein the network server performs call
2 control communications with the PSTN-to-IP gateway in accordance with a SIP protocol.

performing speech recognition on the call using audio data extracted from the VoIP
format by the computer system.

10. The method of claim 9, wherein the conversion device and the computer system are
located in close physical proximity.

11. The method of claim 9, wherein there is a second computer system physically distant
from the conversion device and wherein the forwarding goes to the second computer system
responsive to a failure of the first computer system.

12. The method of claim 9, further comprising prior to the forwarding sending a message
from the conversion device to a second computer system, the second computer system
selecting the computer system from a plurality of computer systems to receive the call.

13. The method of claim 12, wherein the selecting according to a predetermined set of
criteria to balance number of calls being handled by each of the plurality of computer
systems.

14. The method of claim 12, wherein the message comprises a session initiation protocol
(SIP) request.

15. The method of claim 12, wherein the forwarding occurs responsive to a SIP
acknowledgement from the computer system.